

What is claimed is:

1. A hybrid vehicle comprising:

an engine for driving main driving wheels; and

a plurality of motors for driving sub driving wheels,

5 wherein at least one motor is selected from the plurality of motors to drive the sub driving wheels according to a driving force required by the vehicle.

2. A hybrid vehicle as set forth in Claim 1, wherein

10 the sub driving wheels are driven by all the motors at low vehicle speed where the driving force required by the vehicle is large.

3. A hybrid vehicle as set forth in Claim 1, wherein

15 the plurality of motors comprises a main motor having a large output and a sub motor having a small output, the sub motor being disposed on an upstream side of the main motor relative to a direction in which the driving force is transmitted to the sub driving wheels.

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4. A hybrid vehicle as set forth in Claim 3, wherein

a clutch for interrupting the transmission of driving force is disposed between the sub motor and the main motor.

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5. A hybrid vehicle as set forth in Claim 1, wherein

the plurality of motors comprises a main motor having a large output and a sub motor having a small output, and wherein a high-voltage battery for driving the main motor is charged with regenerative power of the main motor,
5 whereas a low-voltage battery for driving the sub motor is charged by a generator driven by the engine.

6. A hybrid vehicle as set forth in Claim 1, wherein the plurality of motors comprises a main motor having a large output and a sub motor having a small output, and wherein a battery for driving the main motor is charged with regenerative power of the main motor, and the sub motor is driven by generated output of a generator driven by the engine.
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7. A hybrid vehicle as set forth in Claim 1, wherein the plurality of motors comprises a main motor having a large output and a sub motor having a small output, and wherein a battery for driving the main motor is charged with regenerative power of the main motor, and the sub
20 motor is driven by lowering the voltage of the battery by a downverter.

8. A hybrid vehicle as set forth in Claim 3, wherein
25 a speed reduction member is disposed between the sub motor

and the main motor.

9. A hybrid vehicle as set forth in Claim 1, further comprising a motor/generator which functions both as a
5 motor to assist the engine for driving the main driving wheels in providing driving force and as a generator to generate power by being driven by driving force of the engine or driving force which is reversely transmitted from the main driving wheels.

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